UNISYS

Software Release Announcement

CTOS® Context Manager II (CM) R5.0.1

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Section 1
General Description

This section contains:

- An introduction to the Software Release Announcement (SRA)
- A description of Context Manager II R5.0.1 software, including major options, important new or existing features, and information on related families of products

1.1 Introduction

Unisys publishes Software Release Announcements (SRAs) to announce the release of a new product. An SRA:

- Provides you with technical details and ordering information on the new product
- Describes interdependency and migration considerations
- Complements marketing, sales, and other customer product information
- Lists additional sources of information

You can order extra copies of an SRA. For more information, see Section 10, Ordering Procedure, or contact your Unisys representative.

1.2 Product Description

Context Manager II is a character-based operating environment that enables you to run multiple applications concurrently, including CTOS, MS-DOS®, Presentation Manager, and POSIX-compliant applications. Its simple, clear menu provides easy access to applications. You can switch different applications into the foreground with a single keystroke, while others remain running in the background. Applications do not have have to be changed to operate under Context Manager II. Context Manager II operates with the CTOS II 3.3.8 (or higher) or CTOS III 1.0 (or higher) operating systems.

Context Manager II R5.0.1 components include:

- **CM Service**

  CM Service provides an environment that allows several interactive applications to run simultaneously. It manages the starting, switching, and termination of applications, and manages screen, keyboard, and mouse activity. Because CM Service handles the starting, switching, and finishing of applications, you do not have to manually open an executable file to start or switch to an application; conversely, you do not have to close a file to finish or switch out of an application.

- **CM Screen**

  CM Screen is the default user interface. It provides an easy-to-use menu from which you can start, switch, and terminate applications with a single keystroke or mouse click.

- **CM Editor**

  CM Editor is a configuration utility you use to configure your applications for use with Context Manager.

- **InterContext Message Service (ICMS)**

  ICMS is a system service that allows applications running in Context Manager partitions or Task Management Service tasks to communicate with each other through messages. ICMS handles the storing, queuing, and clearing of these messages.

Section 2
Release Functionality

This section describes enhanced and discontinued features and functions in this release.

2.1 Enhancements

The following new enhancements are provided in Context Manager II R5.0.1.

2.1.1 Asianization Support

Context Manager now uses ENLS calls to display the boxes on the CM Screen. When running on any VGA system, Context Manager also uses new VAM calls to have the context screens saved and restored during context starts, switches, and terminations. This allows Context Manager to run on future off-the-shelf VGA hardware without changes and provides Asianization support without source code modifications.

2.1.2 New Hardware Support

Context Manager provides support for the new SuperGen hardware platforms, including the SuperGen Series 2400, 3400, 4000, and 6000. For hardware platforms which have more than one processor board (for example, the SG4000 and SG6000), Context Manager runs only on the main processor board. Also, applications using the Context Manager API calls are supported only on the main processor board. If you attempt to install Context Manager on one of the additional IOP processor boards, Context Manager returns the following error message:

```
Context Manager is not supported on Comm IOP boards.
```

2.1.3 Autostart Handling

Context Manager user interfaces are now responsible for starting any application which has been configured to be autostarted. Context Manager returns an ordered list of applications to autostart when the user interface makes the CMQueryAutoStartAppl API call. This gives user interfaces control over how the applications are started and the choice of which autostarted application will appear initially in the foreground. Non-swappable applications are no longer required to be autostarted first.

2.2 Discontinued Features

The following features are no longer supported in Context Manager II R5.0.1.

2.2.1 Window Services and Windows UIMS

Context Manager no longer supports Window Services and Windows UIMS. If you attempt to install Context Manager on a system running Window Services, Context Manager returns the following error message:

```
Context Manager is not supported with Window Services.
```

2.2.2 Real Mode Context Manager

Context Manager II R5.0.1 is not available in a real-mode version. However, the installation process does not overwrite the real-mode run file (*Cm.run*) from a previous version of Context Manager.

2.3 API Calls

The CMReadContextEvent API call has been modified. New fields have been added to the EventBlock structure definition, which provides more detailed information about each start event to the CM user interface application.

A new API call has been added: CMQueryAutoStartAppl. CM user interfaces can use this new request to get a list of applications which the user has configured to be autostarted.

Refer to the *CTOS Context Manager II Programming Guide* for complete details on CMReadContextEvent and CMQueryAutoStartAppl.

Section 3
Product Interdependencies

This section contains:

- Information on interdependent software releases and hardware you need to use with the various functional components in the CTOS Context Manager II R5.0.1 package
- Random-access memory (RAM) and media sizing requirements
- Information on the supported software release levels of all required products

You can use the information in this section to configure your system. The suggested minimum configuration is:

- 2 megabytes of RAM
- One of the following operating systems:
  - CTOS II 3.3.8 or higher
  - CTOS III 1.0 or higher
- CTOS CPU module, at least one hard disk, and a floppy drive

  Note: *On clustered workstations, the floppy drive is optional. You can install the Context Manager software on the server and then install it on the cluster workstation using Installation Manager's Install From Server option.*
- CTOS monitor and keyboard
- BTOS or CTOS application software

3.1 Interdependent Software

Context Manager II R5.0.1 requires either the CTOS II 3.3.8 (or higher) or the CTOS III 1.0 (or higher) operating system. Additionally, if you are running Context Manager II R5.0.1 on a system that has a VGA display, VAM 4.2 is required.

Context Manager II R5.0.1 Required Software

Description	Style ID	Release
CTOS II operating system	(see note)	3.3.8 (or higher)
CTOS III operating system	(see note)	1.0 (or higher)
VAM (on VGA systems)	(see note)	4.2

Note: *For more information on equipment configurations, software, and Style IDs, contact your Unisys representative.*

Additional information is also available in the operating system's Software Release Announcement.

3.2 Interdependent Hardware

This section provides information on hardware products you can use with Context Manager II R5.0.1. Hardware includes workstations, processors, monitors, keyboards, disks, and tape drives.

3.2.1 Workstations and Processors

You can use Context Manager II R5.0.1 with the following protected mode workstations:

NGen Series 286 and 286i

NGen Series 386 and 386i

Series B28, B38, B39

XE-530

SuperGen Series 1000, 2000, 2400, 3000, 3400, 4000, 5000, and 6000

3.2.2 Monitors

You can use Context Manager II R5.0.1 with the following monitors:

B25-D1
B25-D5
B25-VDC
B25-VDM
EVG100-COL
SVG100-COL
VGA200-MON
VGA400-COL
VC-002*
VC-003*
VM-005*
SG120-D*
SG150-D*
SG160-D*

B25-CA1
B25-CD3
B25-D2
B25-D3
B25-GS1
B25-PD7
B25-PD8
VM-003
GCX-03
1431 PW/2*
8512*
8513*
8514*

* Though no longer orderable, these monitors are still supported by Context Manager II R5.0.1.

3.2.3 Graphics Modules

You can use Context Manager II R5.0.1 with the following graphics modules:

GC-001
GC-003
B25-GPP
B25-GRA
B25-GRE
B25-VG1
B25-VG2
B25-VG3
B25-VG4

3.2.4 Keyboards and Pointing Devices

You can use Context Manager II R5.0.1 with the following keyboards and pointing devices (mice):

B25-K1
B25-K2
B25-K3
B25-K4
B25-K5
SG101-K
SG102-K (PC-style keyboard)
PD-001
B25-MO3
B25-MOU
SG101-U

3.2.5 Disk and Tape Drives

Context Manager II R5.0.1 requires a 3-1/2 inch or 5-1/4 inch floppy drive only to install the software. On a cluster workstation, you can install the Context Manager software onto the server and then install it on cluster workstations using Installation Manager's Install From Server option.

3.3 Media Sizing

The following table lists the approximate sizes of all required installation files.

Description	Sectors	Bytes
CmEditor.Run	267	136700
CmInstall.Run	159	81400
CmInvoker.Run	85	43400
CmNull.Run	40	20400
CmScreen.Run	184	94200
CmVm.Run	403	206300
ICMS.Run	42	21500
CmConfigMsg.Bin	15	7200
CmInstallMsg.Bin	4	1800
CmScreenMsg.Bin	11	5500
CmVmMsg.Bin	4	1600
CmAPI.Lib	24	12000
CmConfigFrm.Lib	19	9500
CmConfig.Sys	4	1700
Request.CM.Sys	37	18500
Total required disk space	1298	661700

3.4 Random-Access Memory (RAM) Sizing

As a guideline, the following table shows the RAM considerations you can use as a typical memory requirement. Your particular use will determine your exact RAM needs.

Using this table, you can also identify the mode of memory and type of file each program uses.

Protected mode programs can use a partition above, below, or spanning the first megabyte of RAM.

Description	Type	Memory Mode	KBytes RAM
CmEditor.Run	Application	Protected	135
CmInstall.Run	Application	Protected	See note 1
CmInvoker.Run	Application	Protected	35
CmNull.Run	Application	Protected	25
CmScreen.Run	Application	Protected	95
CmVm.Run	Sys Service	Protected	160
ICMS.Run	Sys Service	Protected	(See note 2) 15

Notes:

(1) CmInstall.Run *chains to* CmVm.Run. *See* CmVm.Run *for RAM requirements.*

(2) *The RAM requirements for* ICMS.Run *depends on the message size specified in the CM configuration file when ICMS is installed. 15KB is the default amount of memory if a message size of 200 is specified.*

Section 4
Migration Requirements

This section includes information about migrating from previous releases of Context Manager.

4.1 Installation

Context Manager II R5.0.1 uses the same file names as previous releases. The installation process:

- Overwrites files with the same name (except for *CmConfig.sys* and *Cm.User*) if you install the software to a directory containing files from a previous release of Context Manager
- Removes obsolete files and commands
- Updates the system's *Request.sys* file with the request codes defined in *Request.CM.sys*

4.1.1 80186-Based Diskless Cluster Workstations

Cluster workstations based on 80186 processors cannot use Context Manager II R5.0.1. They can use a version of Context Manager prior to R5.0.0. If they have local hard disks, they can store the previous version of Context Manager locally. Otherwise, you can create a separate Context Manager configuration on the server for them.

Before you install Context Manager II R5.0.1 on the server, use the following procedure to create a separate environment for 80186-based diskless workstations:

1. Copy all the files used by the previous version of Context Manager to a new directory. If you have Window Services and Windows UIMS installed, you can leave those files in their current directory.

   For the list of files required by the previous version of Context Manager, you can refer to Section 3 of of the *CTOS Context / Window Manager Installation and Configuration Guide Volume 1: Real Mode*

2. Create a new command file for the diskless workstations by copying their current command file to a new file (for example, *[!Sys]<Sys>DisklessWSSys.cmds*).

3. Edit the new command file using Command File Editor. Set the path for the run files for the following Context Manager commands to the new directory you created in step 1.

   CM Add Application
   CM Config File Editor
   CM Editor
   CM Modify Info
   CM Remove Application
   Deinstall ICMS
   Exit Executive
   Finish Executive
   Install Context Manager
   Install ICMS

4. Create unique .user files for each user of a diskless workstation. In the user file, set the value of the keyword *:ExecCmdFile:* to the new command file (for example, *[!Sys]<Sys>DisklessWSSys.cmds*). Also, if the *.user* files install Context Manager automatically, change the value for *:SignOnChainFile:* to *[!Sys]<NewDirectory>CmInstall.run*, where *<NewDirectory>* is the directory you created in step 1.

5. If the users at the diskless workstations install ICMS automatically when Context Manager installs, then you must create a unique CM configuration file for the diskless cluster workstations. Use the CM Editor to edit this new CM configuration file and specify *[!Sys]<NewDirectory>ICMS.run* as the ICMS run file where *<NewDirectory>* is the directory you created in step 1.

4.2 Swapping Applications to Disk for CTOS II

To increase the number of applications that can run concurrently, CTOS uses a disk file called a swap file, which it treats as if it were additional memory. If the swap file has not already been created, CTOS creates it. If you have started enough applications so that all your system's memory is used up and you try to start an additional application, CTOS automatically transfers (*swaps*) one of the applications to the swap file to accommodate the new application. No processing occurs in swapped contexts; they are suspended, not active.

Note: *CTOS II and CTOS III differ in their memory management methods, and this affects the amount of swapping they do. If you are using CTOS III, you are unlikely to ever have an application swap out entirely. The descriptions of swapping on the following pages are more typical of CTOS II than CTOS III.*

For example, you might have 2048 KB of memory available and want to run the following applications with Context Manager:

- OFIS Document Designer, in a 1048 KB partition
- Executive, in a 1048 KB partition
- OFIS Mail, in a 300 KB partition

Since these add up to 2396 KB, there is not enough memory for Context Manager to create partitions for all three to run simultaneously. But if you start the third, the operating system automatically swaps one of the two you started earlier to disk. It then creates the appropriate size partition for the application you just started.

When you switch to a context that was swapped earlier, the operating system clears room for it by swapping out another context to the swap file and then resizing the partition so it fits the requested context.

Swapping an application between disk and memory takes several seconds--much faster than starting and finishing the application--and is done automatically by the operating system.

On workstations with the Cache utility installed, you can configure Context Manager to swap to upper memory instead of disk. Swapping to upper memory is faster than swapping to disk. Refer to section 4 of the *CTOS Context Manager II Installation and Configuration Guide* for procedures on swapping to upper memory instead of to disk. (For more information on using Cache, refer to the *CTOS System Administration Guide*.)

The operating system does not swap communications applications (such as Asynchronous Terminal Emulator, or ATE) or real-time applications (real-time applications are applications that must respond to events within strict time constraints). For example, if you are using direct printing from OFIS Document Designer, the operating system could not swap OFIS Document Designer because it could not communicate with the printer while it is swapped. If you ask the operating system, through Context Manager, to do something that requires it to swap out such a context, the following message appears:

```
A context in memory cannot be swapped out.
```

This situation can also arise if, for example, you start Enhanced or Extended Multiplan™, then start ATE, which causes Multiplan to be swapped out, and then try to switch back to Multiplan. There is not enough memory to switch to Enhanced Multiplan without swapping ATE. The operating system cannot swap Enhanced Multiplan in because it cannot swap ATE out . To get it back into memory, you must finish (exit) ATE.

4.3 Creating Swap Files for CTOS II

If you try to open an application when all of the workstation memory is in use, the system places an existing context in a swap file for temporary storage. It chooses a context to swap out based on the partition size needed and the status of the contexts. The context is transferred to a swap file on a local hard disk or over a cluster line to a server hard disk.

If you have not specified a swap file in your operating system configuration file, the system creates a swap file named *[Sys]<Sys>SwapAreann.sys* (*nn* represents a value which begins with 00, which the system increments to 01, 02, and so on if *SwapArea00* is in use. This ensures that cluster workstations using swap files on the server will each have their own swap file).

Although the system creates a default swap file, you can also create your own swap file of a particular size or change the size of the default swap file. You may want to do this for two reasons:

- You need a swap file larger than the default.

  If you need to swap many contexts, there may not be enough room in the swap file to swap out the new one before bringing the old one back in. If this situation occurs when you try to switch these two contexts, the following message appears:

  ```
  Cannot swap out a context to bring this context in. (Error
  815)
  ```

  You must then finish one or more contexts to make room in memory for the context you want to start.

- You need to swap few contexts and prefer to create a smaller swap file to save space on your disk.

You can estimate the approximate amount of disk space (in sectors) required by the applications you want to swap. If it exceeds the amount of space in the default swap file, you can create a larger one (assuming you have space available on the disk); if it is less than the default, you can create a smaller one. The default swap file size is 2048 sectors.

You can estimate the minimum or maximum number of sectors needed.

4.3.1 Estimating the Minimum Swap File Size

To estimate the minimum number of sectors required for the swap file, add up the number of KB memory required by each application that you plan to use on a regular basis, and multiply the result by 2 (each 1 KB of memory requires 2 sectors of disk space).

For example, a 200 KB application requires 400 sectors. A swap file large enough for five 200 KB applications must have 2000 sectors.

4.3.2 Estimating the Maximum Swap File Size

To estimate the maximum number of sectors needed, multiply the run file size of the largest application by 2, then multiply that amount by 20. (20 is the maximum number of contexts Context Manager can handle.)

For example, if your largest application is 400 KB, it requires 800 sectors. Multiply 800 by 20 to get 16,000 sectors. This will be the largest swap file you could ever possibly need. For most configurations, you will probably want to conserve disk space by using a a smaller value.

When estimating the swap file size required, you should keep in mind that Context Manager does not swap communications (such as the Asynchronous Terminal Emulator) or real-time applications (such as a context in direct printing mode).

In addition, some applications, such as OFIS Document Designer, can only be run in one context at a one time for a given sign-on user name. Therefore, calculating a maximum swap file size based on running more than one instance of such an application might yield a much larger size than is actually necessary.

For procedures on configuring a swap file, refer to section 4 of the *CTOS Context Manager II Installation and Configuration Guide*.

On workstations with the Cache utility installed, you can configure Context Manager to swap to upper memory instead of disk. Swapping to upper memory is faster than swapping to disk. For information on configuring Cache for best performance with Context Manager, refer to Swapping to Upper Memory in section 4 of the *CTOS Context Manager II Installation and Configuration Guide*. (For more information on using Cache, you can refer to the *CTOS System Administration Guide*.)

Under CTOS II, the total number of applications you can run under Context Manager is limited by the amount of memory available for loading applications and the amount of memory available on disk for swapping applications. Information on memory availability can help you fine-tune your configuration.

4.4 Upgrade Assistance

For details on available upgrade assistance services, contact your Unisys representative or reseller.

Section 5
Product Corrections

This section describes corrections to certain restrictions, limitations, and operational conditions found in the preceding releases of Context Manager II R5.0.1. Corrections are described relative to the operating environment, including a brief description of the original symptoms, if appropriate.

5.1 Context Manager Corrections

Terminating or Switching Contexts on Diskless Workstations

If you terminate or switch contexts on a diskless B28/B38 workstation, the workstation no longer hangs with a blank or corrupted display.

Faster Context Switching When Background Color Disabled

If you disable background color in all contexts, switching between Executive contexts is no longer slow.

Function Key Assignment After Editing CMConfig.sys

If you finish CM Editor and Context Manager updates itself, and you then finish a context which has an assigned function key, the function key no longer becomes temporarily unassigned.

Invalid Configuration File Name in Install ICMS Command

If you enter an invalid file name in the *[Config file name]* parameter of the Executive command **Install ICMS**, the command now returns an error message.

Child Contexts Adopting Parent or Grandparent Contexts

If a child context attempts to adopt its parent or grandparent context by using the CMSetParent request, Context Manager now returns status code 12015 (Cannot adopt parent or grandparent context).

Loading Context Manager on EV Systems

If you load Context Manager on a system with EV hardware while the screen is set to 132-column mode, exiting CM no longer causes unpredictable results.

Marking Data in a 146-Column Context

If the system has background color disabled and you attempt to mark data from a 146-column context using the mouse, the mouse cursor is now visible.

CMTranslateChToFnKey API Call

This API call now checks for NULL pointers passed as parameters.

Clearing the Type Ahead Buffer

When Context Manager deinstalls, it will clear any keystrokes left in the type ahead buffer.

Losing Bottom Screen Lines on High Resolution VGA Systems

If you install Context Manager when the screen is set to either 29 or 34 lines and then later logout of Context Manager, you no longer lose the bottom screen lines when changing the screen length to 38 lines.

Switching to Parent After Child Context Error Exits

If a child context error exits and the parent is switched into the foreground, switching to CM Screen now allows you to switch back to the parent using the GO key. Previously, you had to switch to another context before Context Manager would let you switch back to the parent.

Saving Fonts to Memory

When an application loads a font on non-VGA systems, Context Manager now saves that font to memory, if enough memory is specified for the Font Reserve in the CM configuration file. Previously, regardless of how much memory was specified in the Font Reserve, Context Manager would save the font to disk.

Intermittent 12003 Error Code Displayed

Context Manager no longer briefly displays error code 12003 when logging out. Previously, an intermittent 12003 error code may have been displayed due to a problem with how context events were reported to the CM Screen.

Extra Bullets in the CM Screen Display

Receiving an error message and then moving the highlight in the **Contexts you can return to** area of the display no longer produces extra bullets in the CM Screen display.

Marking Data in a Context with a Different Screen Size or Resolution from CM Screen

If you are running Mouse Service 12.3.0 or greater and you attempt to mark data in an 80x29, 80x34, 132x34, or 146x38 mode context when CM Screen is in 80x38 mode, the mouse tracking now corresponds to where the highlight appears on the screen.

Specifying Passwords While Chaining to CmInstall.run

Context Manager now installs when a password is specified while chaining to *CmInstall.run*. Previously, CM would cause unexpected results and would not install.

Blank Characters on BTE Screen

Switching from BTE to another application on VGA systems no longer causes blank characters to appear to be turned into different visible characters.

Configuring Action-Finish for the K4 Keyboard

Context Manager now allows the **ACTION+FINISH** keystroke combination, when used to terminate contexts from the CM Screen display, to be configured for the K4 keyboard.

Highlighted Application Becomes Active with Mouse Clicks in the Status Area

If an application is highlighted in the **Application you can start** area on the CM Screen and the user clicks the mouse below the list of contexts in the **Status** area, then the CM Screen no longer starts the highlighted application.

Losing Background Color in Contexts

If you are running Editor 12.3.0 or greater on a system which uses either the B25-VG1, B25-VG2, B25-VG3, or B25-VG4 graphics module, and you start an Editor session from the Executive which has the background set to a color other than the default and then switch to the CM Screen, switching back to the Editor no longer causes the background color to disappear.

Reverse Video Bar on Greyscale Monitors

If you start an Executive context from the CM Screen on a greyscale monitor, a reverse video bar no longer appears at the top of the Executive screen after switching to the CM Screen and back to the Executive context.

SNA 3270 Emulator Line Displays in the Wrong Place

If you are running the SNA 3270 Emulator in the background in 132x34 mode, the horizontal dashed line displayed by SNA no longer appears in the wrong place on the screen.

Section 6
Restrictions and Known Limitations

This section includes certain restrictions, limitations, or operational conditions known as of the date of release. Restrictions may include such items as unsupported hardware and software products or functional elements within those products. Known limitations may include elements of implied or stated functionality where that capability does not, to some degree, exist. Conditions may include operational nuances which may or may not require a detour, caution, or some degree of operator awareness.

Where possible, this section states whether restrictions, limitations, or conditions are permanent, and if they are not, may state a planned release level (or date) that will lift the restriction. Restrictions, limitations, or conditions may be permanent if they are part of the Context Manager II R5.0.1 design and, therefore, beyond current price, performance, or technical constraints.

Unisys provides this information so you can avoid or work-around known restrictions or limitations you might otherwise encounter when using Context Manager II R5.0.1.

6.1 New Items

The following restrictions, limitations, or conditions are new or revised in this release of Context Manager II R5.0.1.

6.1.1 Restrictions

The following items are a permanent part of the product design.

Font Inheritance in Shared Video Child Contexts

Shared video child contexts do not inherit their parent context's fonts.

Changing Screen Widths of Parent and Child Contexts

If you change the screen width within one context and then start a background shared video child context from it, the child context will not have the same screen width as its parent. This could cause a "stair-step" effect to appear on the screen.

Unisys recommends that shared video child contexts receive the screen widths of their parent contexts.

Changing Resolutions of Parent and Child Contexts

If a shared video child context's resolution is changed and it terminates, the parent context displays in the child context's resolution, and text in it appears to have a "stair-step" effect.

Changing Video and Color Attributes of Parent and Child Contexts

Reverse video and background color attributes are not always updated completely between shared video child contexts and their parent contexts.

Unisys recommends that you use the same reverse video and color attributes in shared video contexts.

Screen Corruption with a Large Number of Child Contexts

If you are using the CTOS III 1.1 or greater operating system and you start 20 shared video child contexts while the swap file is full, the screen may become corrupted.

Increasing the size of the swap file corrects this problem.

Complex Shared Video Ancestry

Creating child contexts with complex shared video ancestry can lead to unpredictable events after the grandparent context terminates.

Unisys recommends that you restrict the use of the shared video attribute to parent-child relationships.

Exit Run File for the CM User Interface

When ICMS is installed at Context Manager installation time, the exit run file is set to *CMInstall.run*. If a user interface is then invoked which does not set an exit run file, its exit run file remains *CMInstall.run*.

Unisys recommends the CM user interface set the exit run file during its initialization.

Status Code 619 When Transferring Data

Sometimes when you attempt to transfer data to a context, the operating system returns status code 619 (No buffer space) to Context Manager.

If this happens, try to transfer the data again or use the data transfer feature to transfer the data in smaller blocks.

Screen Setup in Executive Started by CM Invoker

If you start an Executive context using **CM Invoker** (that is, by setting *[Needs Exec screen?]* to **Yes**), running **Screen Setup** to change the resolution will not do so on the first attempt.

You can set the *[Needs Exec screen?]* field to **No** to prevent this problem from occuring or run **Screen Setup** a second time and the screen resolution will change.

UNDO (F2) in CM Editor

In CM Editor, if you fill in a blank function key field for a command and then press **UNDO (F2)**, **1** displays in the function key field.

Marking Data in a Context with a Different Screen Size or Resolution from CM Screen

If you are running a version of Mouse Service prior to 12.3.0 and you attempt to mark data in an 80x29, 80x34, 132x34, or 146x38 mode context when CM Screen is in 80x38 mode, the mouse tracking does not correspond to where the highlight moves on the screen, making it difficult to mark data accurately.

In this case, use the keyboard to mark the data.

Marking Data in a 146-Column Context

If the system has background color enabled and you attempt to mark data from a 146-column context using the mouse, the mouse cursor will not be visible.

In this case, use the keyboard to mark the data.

Losing Background Color in Contexts

If you are running a version of Editor prior to 12.3.0 on a system which uses either the B25-VG1, B25-VG2, B25-VG3, or B25-VG4 graphics module, and you start an Editor session from the Executive which has the background set to a color other than the default and then switch to the CM Screen, switching back to the Editor causes the background color to disappear.

6.1.2 Limitations

The following items are expected to be corrected in a future release. Workarounds are included where appropriate in the description of each item.

CM Editor Support for 928x348 Resolution

CM Editor does not support specification of a resolution of 928x348, which would allow contexts to be started in 80x34 mode on VGA systems.

6.2 Existing Items

The following restrictions, limitations, and conditions are unchanged from prior releases of Context Manager II R5.0.1.

6.2.1 Restrictions

These items are a permanent part of the product design. Workarounds are included where appropriate in the description of each item.

Applications Starting Other Applications

If an application that starts other applications (for example, OFIS Designer starting OFIS Graphics) reads an application name from the CM configuration file using a method other than the ReadCMConfigFile call, and the application being started is marked as "dirty" (with an asterisk), the starting application should include some means of separating and ignoring the asterisk from the command name. Otherwise, attempts to activate the application by name results in status code 12004 (No such command).

Locking Applications That Chain to Other Applications

If an autostarted application chains to another application without issuing one of the following operating system calls: InitCharMap, ResetVideo, or ResetVideoGraphics, you cannot lock the initial application in memory .

Swapping While Starting a Child Context

If a parent context swaps out while starting a child context, it must be swapped back in before it can issue the call CMTellMeWhenMyChildTerms and receive the child's termination notification.

If the parent context does not issue CMTellMeWhenMyChildTerms until after the child context has already terminated, CM Service returns status code 12003 (No such context).

You can avoid this by having the parent call NotifyCm(22) before starting any child contexts, instead of using CMTellMeWhenMyChildTerms.

Using Volume and Device Names in CM Editor

When you specify a CM configuration file name in CM Editor, use a volume name (such as *[Sys]*, for example) instead of a device name (such as *[d0]*). CM Editor does not recognize *[d0]<Sys>CMconfig.sys* as being the same file as *[Sys]<Sys>CMconfig.sys*, even if *[d0]* is the *[Sys]* volume. The same applies for *[d1]*, *[d2]*, and so on. This problem frequently occurs if your user file automatically starts Context Manager and lists the configuration file path with the volume as *[d0]*. In this case, if you use CM Editor to update your current CM configuration file, CM Editor may not recognize that the configuration file changed was the current configuration file. As a result, the CM Editor will not notify Context Manager to re-read your configuration file.

Location of Context Manager Files

The Context Manager message files *CmVmMsg.Bin*, *CmInstallMsg.Bin*, *CMScreenMsg.Bin*, and *CmConfigMsg.Bin* must be in the same directory as the run files which reference them (*CmVm.Run, CmInvoker.Run. CmNull.Run, CmInstall.Run, CMScreen.run,* and *CmEditor.Run*). *CmConfigFrm.Lib* must also be in the same directory as *CmEditor.Run*.

Interrupted Font Load from Server

On diskless systems, if a context loads a font located on the server and the server reboots while the context is not in the foreground, the font will revert to the system default because the font file handle is no longer valid.

Color Palette Inherited from Editor

After using the Editor from an Executive context in which the Editor has a different color palette than the Executive, a shared video child started from the Executive may receive the Editor's color palette instead of the parent Executive's.

Marked Data Staying Marked

If you use the mouse to mark data for transfer, some small marked areas of the screen do not un-mark when you try to mark a different area.

6.2.2 Limitations

The following items are expected to be corrected in a future release. Workarounds are included where appropriate in the description of each item.

Extra Bullets in the CM Screen Display

Typing an **ACTION+Function key** combination to return to a locked context and then pressing an arrow key can produce extra bullets in the CM Screen display.

Child Contexts of TMS tasks

A child context of a TMS task is not terminated when the TMS task terminates.

Section 7
Support

This section provides support categories and warranties information. It also provides information about any discontinuance of support for previous release levels (or features in those releases) and the effective date for support discontinuance. Unisys may also provide you with information about support discontinuance in a Discontinuance Announcement.

The Context Manager II R5.0.1 software is in Support Category 1 and Warranty Class 1. It is fully supported and enhanced, and it is warranted for 90 days to conform to Unisys published specifications.

Support Type	Statement
Support Category 1	fully supported and enhanced
Support Category 2	supported only, with no enhancements
Support Category 3	neither supported nor enhanced

Warranty Type	Statement
Warranty Class 1	warranted for 90 days to conform to Unisys published specifications
Warranty Class 2	not warranted and is provided "as-is"

7.1 Support Discontinuance

Effective February 1993, update maintenance support for all Context/Window Manager releases prior to 1.3.5 was discontinued. If you are currently using any older release levels, you should consider migrating to the latest version of Context Manager supported in your environment. If you require a correction to a prior release level, Unisys may ask you to upgrade.

If you plan on migrating to CTOS III 1.1, then you will automatically receive Context Manager II R5.0.1.

Section 8
Customer Product Information

Unisys packages product information into Libraries or Literature Sets for each product. Also, for your convenience, Unisys offers various ways to reorder product information to fit your needs.

- Library

  Customers who wish to purchase the entire suite of manuals can do so by ordering the Library part number.

- Individual books

  Customers who wish to purchase individual manuals can do so by ordering the manual part numbers.

See Section 10 Ordering Procedure, for part number information. Unisys includes all applicable errata and updates with each part number. Updates contain any preceding errata.

As release levels higher than those listed become available, review the applicable SRA for compatibility information.

Section 9
List of Files on the Product Media

This section describes the software distribution media. It organizes this information by product and available media. The Context Manager II R5.0.1 package contains one 3-1/2 or two 5-1/4 inch diskettes.

The following tables list the volume, directory, and file names on each diskette.

9.1 3-1/2 Inch Media

Location	File Name
[B25CM6-1]	
<Sys>	
BadBlk.Sys	SMS.Registration
CrashDump.Sys	FdSys.Version
Fileheaders.Sys	Install.Cmds
Log.Sys	Install.Ctrl
Mfd.Sys	Install.Jcl
SysImage.Sys	InstallMsg.Bin
BootRecord.Sys	'Context Manager II Diskette 1 of 1'

continued

Location	File Name
[B25CM6-1] (cont.)	
<Unisys>	
CmEditor.Run	CmConfigMsg.Bin
CmScreen.Run	CmScreenMsg.Bin
CmInstall.Run	CmInstallMsg.Bin
CmVM.Run	CmVmMsg.Bin
CmInvoker.Run	CmNull.Run
ICMS.Run	
CmApi.Lib	CmConfig.Sys
CmConfigFrm.Lib	Request.CM.Sys
Cm.User	

9.2 5-1/4 Inch Media

Location	File Name
[B25CM6-1]	
<Sys>	
BadBlk.Sys	SMS.Registration
CrashDump.Sys	FdSys.Version
Fileheaders.Sys	Install.Cmds
Log.Sys	Install.Ctrl
Mfd.Sys	Install.Jcl
SysImage.Sys	InstallMsg.Bin
	'Context Manager II Diskette 1 of 2'
<Unisys>	
CmEditor.Run	CmConfigMsg.Bin
CmInstall.Run	CmInstallMsg.Bin
CmInvoker.Run	
CmApi.Lib	CmConfig.Sys
CmConfigFrm.Lib	Request.CM.Sys
Cm.User	
[B25CM6-2]	
<Sys>	
BadBlk.Sys	FdSys.Version
CrashDump.Sys	
Fileheaders.Sys	'Context Manager II Diskette 2 of 2'
Log.Sys	
Mfd.Sys	
SysImage.Sys	
<Unisys>	
CmScreen.Run	CmScreenMsg.Bin
CmVM.Run	CmVmMsg.Bin
ICMS.Run	CmNull.Run

Section 10
Ordering Procedure

This section provides software and product information part numbers and release levels.

For ordering information,

- Contact your local Unisys representative, sales office, or reseller. Unisys has branches and representatives in most major cities worldwide.
- United States customers can call Unisys Direct at 1-800-448-1424.
- Unisys personnel can use the Electronic Literature Ordering (ELO) system.

10.1 Part Numbers

Specify the following Style ID or part number when ordering ordering Context Manager II R5.0.1 products. These products may include:

- Software media
- The SRA
- Product Information

Note: Order software using Style ID. Order documentation using part number.

Software Description	Release Level	Style ID
CTOS Context Manager II 3-1/2 inch Diskette or 5-1/4 inch Diskettes	**R5.0.1**	**MB25-CM6**
CTOS Context Manager II 3-1/2 inch Diskette or 5-1/4 inch Diskettes	**R5.0.1**	**XB25-CM6**
CTOS Context Manager II 3-1/2 inch Diskette or 5-1/4 inch Diskettes New Package License	**R5.0.1**	**NP25-CM6**
CTOS Context Manager II 3-1/2 inch Diskette or 5-1/4 inch Diskettes Upgrade Package License	**R5.0.1**	**UP25-CM6**
New Package License Only	**R5.0.1**	**ML25-CM6**
Upgrade Package License Only	**R5.0.1**	**UL25-CM6**

Documentation Description	Release Level	Part Number
CTOS Context Manager II Software Release Announcement R5.0.1	4393 5899-001	
Context Manager II Document Library	R5.0	4393 5964-000
The library consists of:		
CTOS Context Manager II Installation and Configuration Guide	R5.0	
CTOS Context Manager II Operations Training Guide	R5.0	
CTOS Context Manager II Programming Guide	R5.0	
To order individual items:		
CTOS Context Manager II Software Release Announcement	R5.0.1	4393 5899-001
CTOS Context Manager II Installation and Configuration Guide	R5.0	4393 4652-000
CTOS Context Manager II Operations Training Guide	R5.0	4393 4678-000
CTOS Context Manager II Programming Guide	R5.0	4393 4660-000

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